We claim:

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1	1. An automated data storage system for storing and accessing a plurality of data
2	storage media stored in a plurality of storage slots, said automated data storage system having a
3	least one data storage drive for receiving said data storage media and reading and/or writing data
4	thereon, comprising:

- a first media storage library having a first rail system disposed therein;
- a garage disposed adjacent said first media storage library, said garage having a movable rail system disposed therein;

one or a plurality of accessors for accessing and transporting said data storage media between said storage slots and said data storage drive, wherein said one or a plurality of accessors is moveably disposed on said first rail system or on said movable rail system;

wherein said movable rail system can be positioned such that said one or a plurality of accessors can move between said first rail system and said movable rail system.

- 2. The automated data storage system of claim 1, wherein said first rail system further comprises a proximal end and a distal end, and wherein said movable rail system further comprises a first end and a second end, and wherein said first end can be positioned to be substantially colinear with said proximal end such that said one or plurality of accessors can move between said first rail system and said movable rail system.
- 3. The automated data storage system of claim 2, wherein said movable rail system further comprises a first positioning apparatus disposed on said first end and a second positioning apparatus disposed on said second end.
- 4. The automated data storage system of claim 1, wherein said movable rail system comprises two parallel rails.

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- 5. The automated data storage system of claim 1, wherein said movable rail system comprises a plurality of paired parallel rails, wherein each of said plurality of paired parallel rails has a first end and a second end.
- 6. The automated data storage system of claim 5, wherein each of said pairs of parallel rails further comprises a first positioning apparatus disposed on its first end and a second positioning apparatus disposed on its second end.
- 1 7. The automated data storage system of claim 1, wherein said garage further 2 comprises one or a plurality of doors.
 - 8. The automated data storage system of claim 1, wherein said first rail system comprises two parallel rails.
 - 9. The automated data storage system of claim 1, further comprising one or a plurality of movable media storage devices.
 - 10. An automated data storage system for storing and accessing a plurality of data storage media stored in a plurality of storage slots, said automated data storage system having at least one data storage drive for receiving said data storage media and reading and/or writing data thereon, comprising:
 - a first media storage library having a first rail system disposed therein;
 - a second media storage library having a second rail system disposed therein;
 - a garage having a movable rail system disposed therein, wherein said garage is disposed
- 8 adjacent said first media storage library and adjacent said second media storage library;
- one or a plurality of accessors for accessing and transporting said data storage media between said storage slots and said data storage drive, wherein said plurality of accessors is

- moveably disposed on said first rail system, or on said second rail system, or on said movable rail system;
 - wherein said movable rail system can be positioned such that said one or a plurality of accessors can move between said first rail system and said movable rail system, and wherein said movable rail system can be positioned such that said one or a plurality of accessors can move between said second rail system and said movable rail system.
 - 11. The automated data storage system of claim 10, wherein said movable rail system can be positioned such that said one or a plurality of accessors can move between said first rail system and said movable rail system and between said second rail system and said movable rail system.
 - 12. The automated data storage system of claim 10, wherein said movable rail system further comprises a first positioning apparatus disposed on said first end and a second positioning apparatus disposed on said second end.
 - 13. The automated data storage system of claim 10, wherein said movable rail system comprises two parallel rails.
 - 14. The automated data storage system of claim 10, wherein said movable rail system comprises a plurality of paired parallel rails, wherein each of said plurality of paired parallel rails has a first end and a second end.
 - 15. The automated data storage system of claim 14, wherein each of said pairs of parallel rails further comprises a first positioning apparatus disposed on its first end and a second positioning apparatus disposed on its second end.
 - 16. The automated data storage system of claim 10, wherein said garage further comprises one or a plurality of doors.

- 1 17. The automated data storage system of claim 10, wherein said first rail system and 2 said second rail system each comprise two parallel rails.
 - 18. The automated data storage system of claim 10, further comprising one or a plurality of movable media storage devices.
 - 19. A method of moving one or a plurality of accessors within an automated data storage system for storing and accessing a plurality of data storage media stored in a plurality of storage slots, said automated data storage system comprising said one or a plurality of accessors and at least one data storage drive for receiving said data storage media and reading and/or writing data thereon, wherein said one or a plurality of accessors access and transport said data storage media between said storage slots and said data storage drive, said method comprising the steps of:

providing a first media storage library having a first rail system disposed therein;

providing a second media storage library having a second rail system disposed therein;

providing a garage having a movable rail system disposed therein, wherein said garage is

disposed adjacent said first media storage library and adjacent said second media storage library;

movably disposing said one or a plurality of accessors on said first rail system;

positioning said movable rail system to be substantially colinear with said first rail

system;

moving said one or a plurality of accessors from said first rail system onto said movable rail system;

positioning said movable rail system to be substantially colinear with said second rail system; and

- moving said one or a plurality of accessors from said second rail system onto said movable rail system.
 - 20. The method of claim 19, further comprising the steps of:
- positioning said movable rail system to be substantially colinear with both said first rail
 system and said second rail system; and
 - moving said one or a plurality of accessors from said first rail system onto said movable rail system and then from said movable rail system onto said second rail system.
 - 21. The method of claim 20, wherein said movable rail system has a first end and a second end, and wherein said movable rail system further comprises a first positioning device disposed on said first end and a second positioning device on said second end.
 - 22. The method of claim 20, wherein said movable rail system comprises a plurality of paired parallel rails, wherein each of said plurality of paired parallel rails has a first end and a second end; and wherein each of said pairs of parallel rails further comprises a first positioning apparatus disposed on the first end and a second positioning apparatus disposed on the second end.
 - 23. A method to balance work load in an automated data storage system for storing and accessing a plurality of portable data storage cartridges stored in a plurality of storage slots, said automated data storage system comprising a plurality of accessors and a plurality of data storage drives, said drives used for receiving said data storage media and reading and/or writing data thereon, wherein said plurality of accessors access and transport said portable data storage cartridges between said storage slots and said data storage drives, said method comprising the steps of:

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pro	10
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pro	12
said garage	13
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providing a first media storage library comprising a first rail system, a plurality of first storage slots, and a first data storage drive;

providing a second media storage library comprising a second rail system, a plurality of second storage slots, and a second data storage drive;

providing a garage having a plurality of movable rail systems disposed therein, wherein said garage is disposed adjacent said first media storage library and adjacent said second media storage library;

providing a movable media storage device movably disposed on one of said plurality of movable rail systems;

positioning said movable media storage device adjacent said first media library;
transferring one or a plurality of portable data storage cartridges from said first plurality
of storage slots to said movable media storage device; and

positioning said movable media storage device adjacent said second media storage library.

24. The method of claim 23, wherein said plurality of movable rail systems comprises a plurality of paired parallel rails, wherein each of said plurality of paired parallel rails has a first end and a second end; and wherein each of said pairs of parallel rails further comprises a first positioning apparatus disposed on said first end and a second positioning apparatus disposed on said second end.